[0113] FIGS. 10(a)-10(c) show the results of this simulation with the threshold h being set at 0.7, 0.9, and 0.99, respectfully. It is clearly shown in FIGS. 10(a)-10(c) that most of the curves drop suddenly once or twice as the load increases from 0.6 to 2. To provide more specific results, Table 1 lists the total number of packets transmitted in each layer when p.sub.GG=0.71 for the three thresholds h=0.7, h=0.9 and h=0.99. This data indicates that the reason why the QI curves drop suddenly at some points, when P.sub.BB exceeds certain value, is that almost an entire layer is lost.

[0115] An explanation for these sudden drops is now provided. In the exemplary embodiments, as explained above, $P_{X_{I,R}}$ is calculated to determine which packet to deliver at the end of each mini-slot. For a long CBR video data stream, such as that used in the simulation associated with FIGS. 10(a) 10(e), calculation of: 7 X 1 = (layer 0 size = layer 1 size) * (number of frames left) * R (wireless packet size) * (number of mini - slots left)